

10/080204

**SOUND-ABSORBING COMPOSITES AND
SHIELD DEVICES EMPLOYING SAME**

ABSTRACT OF THE DISCLOSURE

5 A sound-absorbing shield device for use in a vehicle
door comprises a sheet of sound-absorbing material and a thin
sheet of polymer film. A first face of the polymer film is
attached to the sound absorbing material and a plurality of
apertures extending through the polymer film from the first
10 face thereof to a second face thereof opposite the first face.
Each aperture is bounded by a hollow protrusion extending from
the second film face, whereby the apertures and protrusions
cooperate to form a barrier against moisture or other
environmental contamination while admitting acoustic energy
15 therethrough into the sound absorbing material.

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